



Atty Dkt No. 8325-0012

COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

#7/I.D.S.

FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)
Sheet 1 of 4

In the Application of RASCHKE et al.

Serial No.: 09/844,662

Art Unit: ~~1645~~ 1653

Filed: April 27, 2001

Examiner: ~~unassigned~~ W4x

Title: METHODS FOR BINDING EXOGENOUS MOLECULE TO CELLULAR CHROMATIN

RECEIVED
MAY 15 2002
TC 1700

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
AW	AA-1	5,789,538	August 4, 1998	Rebar et al.	530	324	
AW	AB-1	6,007,988	December 28, 1999	Choo et al.	435	6	
AW	AC-1	6,013,453	January 11, 2000	Choo et al.	435	6	

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES NO
AW	AD-1	WO 95/19431	July 20, 1995	PCT	—	—	
AW	AE-1	WO 98/54311	December 3, 1998	PCT	—	—	
AW	AF-1	WO 01/68807	September 20, 2001	PCT	—	—	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
AW	AG-1	Aparicio et al., "Characterization of Proteins Bound to Chromatin by Immunoprecipitation from Whole-Cell Extracts," <i>Current Protocols in Molecular Biology</i> (suppl 47): 21.3.1-12

Examiner: *Pat AW*

Date Considered: 7/19/04

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Sheet 2 of 4

In the Application of RASCHKE et al.

Serial No.: 09/844,662

Art Unit: ~~1045~~ 453

Filed: April 27, 2001

Examiner: ~~unassigned~~ Wax

Title: METHODS FOR BINDING EXOGENOUS MOLECULE TO CELLULAR CHROMATIN

RECEIVED
MAY 15 2002
TC 1700

Exam. Init.	Ref. Desig.	Description
<u>UPW</u>	AH-1	Beerli et al., "Positive and Negative Regulation of Endogenous Genes by Designed Transcription Factors," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>97</u> :1495-1500 (2000) ✓
<u>UPW</u>	AI-1	Beerli et al., "Toward Controlling Gene Expression at Will: Specific Regulation of <i>erbB-2/HER-2</i> Promoter by Using polydactyl Zinc Finger Proteins Constructed from Modular Building Blocks," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>95</u> :14628-14633 (1998) ✓
<u>UPW</u>	AJ-1	Boyd et al., "Myc Versus USF: Discrimination at the <i>cad</i> Gene is Determined by Core Promoter Elements," <i>Molecular Cellular Biology</i> <u>17</u> (5):2529-2537 (1997) ✓
<u>UPW</u>	AK-1	Boyd et al., "c-Myc Target Gene Specificity is Determined by a Post-DNA-Binding Mechanism," <i>PNAS</i> <u>95</u> :13,887-13,892 (1998) ✓
<u>UPW</u>	AL-1	Choo et al., "Toward a Code for the Interactions of Zinc Fingers with DNA: Selection of Randomized Fingers Displayed on Phage," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>91</u> :11163-11167 (1994) ✓
<u>UPW</u>	AM-1	Choo et al., "In Vivo Repression by a Site-Specific DNA-Binding Protein Designed Against an Oncogenic Sequence," <i>Nature</i> <u>372</u> :642-645 (1994) ✓
<u>UPW</u>	AN-1	Greisman et al., "A General Strategy for Selecting High-Affinity Zinc Finger Proteins for Diverse DNA Target Sites," <i>Science</i> <u>275</u> :657-661 (1997) ✓
UPW	AO-1	Hayes, J. J., "Chemical Probes of DNA Structure in Chromatin," <i>Current Biology</i> <u>2</u>:127-135 (1995) ✓
<u>UPW</u>	AP-1	Hebbes et al., "Core Histone Hyperacetylation Co-Maps with Generalized DNase I Sensitivity in the Chicken β -Globin Chromosomal Domain," <i>The EMBO Journal</i> <u>13</u> (8):1823-1830 (1994) ✓

Examiner:

Date Considered: 7/19/04

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LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)
Sheet 3 of 4

In the Application of RASCHKE et al.

Serial No.: 09/844,662

Art Unit: 1645

Filed: April 27, 2001

Examiner: unassigned

Title: METHODS FOR BINDING EXOGENOUS MOLECULE TO CELLULAR CHROMATIN

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TC 1700

Exam. Init.	Ref. Desig.	Description
<i>AP</i>	AQ-1	Jamieson et al., "In Vitro Selection of Zinc Fingers with Altered DNA-Binding Specificity," <i>Biochemistry</i> <u>33</u> :5689-5695 (1994)
<i>AP</i>	AR-1	Kang et al., "Zinc Finger Proteins as Designer Transcription Factors," <i>The Journal of Biological Chemistry</i> <u>275</u> (12):8742-8748 (2000)
<i>AP</i>	AS-1	Kuo et al., "In Vivo Cross-Linking and Immunoprecipitation for Studying Dynamic Protein:DNA Associations in a Chromatin Environment," <i>Methods</i> <u>19</u> :425-433 (1999)
<i>AP</i>	AT-1	Liu et al., "Design of Polydactyl Zinc-Finger Proteins for Unique Addressing Within Complex Genomes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>94</u> :5525-5530 (1997)
<i>AP</i>	AU-1	Livingstone-Zatchej et al., "Mapping of Nucleosome Positions in Yeast", <i>Methods in Molecular Biology</i> , <u>119</u> : pp 363-378 Chromatin Protocols, P.B. Becker, ed., Humana Press, (1999)
<i>AP</i>	AV-1	O'Neill et al., "Immunoprecipitation of Chromatin," <i>Meth. Enzymol.</i> <u>274</u> :189-197 (1996)
<i>AP</i>	AW-1	Pomerantz et al., "Structure-Based Design of Transcription Factors," <i>Science</i> <u>267</u> :93-96 (1995)
<i>AP</i>	AX-1	Rebar et al., "Zinc Finger Phage: Affinity Selection of Fingers with New DNA-Binding Specificities," <i>Science</i> <u>263</u> :671-673 (1994)
<i>AP</i>	AY-1	Sippel et al., "Identification of cis-Acting Elements as DNase I Hypersensitive Sites in Lysozyme Gene Chromatin," <i>Meth. Enzymol.</i> <u>274</u> :233-246 (1996)
<i>AP</i>	AZ-1	Tullius et al., "Hydroxyl Radical Footprinting: A High-Resolution Method for Mapping Protein-DNA Contacts," <i>Meth. Enzymol.</i> , <u>155</u> :537-558 (1987)

Examiner:

Date Considered:

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In the Application of RASCHKE et al.

Serial No.: 09/844,662

Art Unit: ~~1645~~ 1653

Filed: April 27, 2001

Examiner: ~~unassigned~~ Wky

Title: METHODS FOR BINDING EXOGENOUS MOLECULE TO CELLULAR CHROMATIN

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MAY 15 2002
TC 1700

Exam. Init.	Ref. Desig.	Description
<i>Wky</i>	BA-1	van Steensel et al., <i>Nature Biotechnology</i> , <u>18</u> :424-428 (2000)
<i>Wky</i>	BB-1	Wellinger et al., <i>Methods in Molecular Biology</i> , <u>119</u> :Chromatin Protocols, P.B. Becker, ed., Humana Press, pp.161-173
<i>Wky</i>	BC-1	Wolffe, "Chromatin: Structure and Function" 3 rd Ed. Academic Press, San Diego (1998)

Examiner: *[Signature]*

Date Considered: 7/19/04

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



COMMISSIONER OF PATENTS AND TRADE MARKS
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#8/K.T.
7/10
Atty Dkt No. 8325-0012
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FORM PTO-1449 (Modified)
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Sheet 1 of 2

TECH CENTER 1600/2900

In the Application of RASCHKE et al.

Serial No.: 09/844,662

Art Unit: ~~1645~~ 1653

Filed: April 27, 2001

Examiner: ~~unassigned~~ *Wax*

Title: METHODS FOR DESIGNING EXOGENOUS REGULATORY MOLECULES

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
	AA-2						

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES NO
<i>W</i>	AB-2	WO 00/42219	July 20, 2000	PCT			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
<i>W</i>	AC-2	Aoki et al., "RP58 Associates with Condensed Chromatin and Mediates a Sequence-specific Transcriptional Repression," <i>J. Biol. Chem.</i> 273(41):26698-26704 (1998) ✓
<i>W</i>	AD-2	Complete Control, "Inducible Mammalian Expression System, Instruction Manual Stratagene Catalog # 271460, #217461, and #217468 pp.1-22 ✓
<i>W</i>	AE-2	Gregory et al., "Restriction Nucleases as Probes for Chromatin Structure," <i>Methods Mol. Biol.</i> 119:417-425 (1999) ✓

Examiner: *Christie*

Date Considered: 7/19/04

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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COMMISSIONER OF PATENTS AND TRADEMARKS
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TECH CENTER 1600/2900

In the Application of RASCHKE et al.

Serial No.: 09/844,662

Art Unit: ~~1645~~ 1653

Filed: April 27, 2001

Examiner: ~~unassigned~~ W4x

Title: METHODS FOR DESIGNING EXOGENOUS REGULATORY MOLECULES

Exam. Init.	Ref. Desig.	Description
<i>MPW</i>	AF-2	Gross & Garrard, "Nuclease Hypersensitive Sites in Chromatin," <i>Annual Review of Biochemistry</i> <u>57</u> :159-197 (1988) ✓
<i>MPW</i>	AG-2	Hertzberg et al., "Cleavage of DNA with Methidiumpropyl-EDTA-Iron(III): Reaction Conditions and Product Analyses," <i>Biochemistry</i> <u>23</u> :3934-3945 (1984) ✓
<i>MPW</i>	AH-2	Mucha et al., "Nuclease-Hypersensitive Chromatin Formed by a CpG Island in Human DNA Cloned as an Artificial Chromosome in Yeast," <i>J. Biol. Chem.</i> <u>275</u> (2):1275-1278 (2000) ✓
<i>MPW</i>	AI-2	Payre et al., "Genomic Targets of the Serendipity β and δ Zinc Finger Proteins and Their Respective DNA Recognition Sites," <i>EMBO Journal</i> <u>10</u> (9):2533-2541 (1991) ✓
<i>MPW</i>	AJ-2	Sambrook et al., <i>Molecular Cloning: A Laboratory Manual</i> . Vol. 1-3, 2 nd edition, Published 1989, Cold Spring Harbor Laboratory Press; see pp 13.21-13.33 ✓
<i>MPW</i>	AK-2	Simpson, "In vivo Methods to Analyze Chromatin Structure," <i>Current Opinions in Genetics & Development</i> <u>9</u> :225-229 (1999) ✓
<i>MPW</i>	AL-2	Stewart et al., "A Simpler and Better Method to Cleave Chromatin with Dnase 1 for Hypersensitive Site Analyses," <i>Nuc. Acids Res.</i> <u>19</u> (11):3157 (1991) ✓
<i>MPW</i>	AM-2	Wingender et al., "TRANSFAC: An Integrated System for Gene Expression Regulation," <i>Nuc. Acids Res.</i> <u>28</u> (1):316-319 (2000) ✓

Examiner: *W4x*

Date Considered: *7/11/04*

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AUG 09 2002
TECH CENTER 1600/2900

In the Application of RASCHKE et al.

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Art Unit: ~~1645~~ 1653

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Title: METHODS FOR BINDING EXOGENOUS MOLECULE TO CELLULAR CHROMATIN

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
<i>MP</i>	AA-3	5,306,619	April 26, 1994	Edwards et al.	435	6	
<i>MP</i>	AB-3	6,410,248	June 25, 2002	Greisman et al.	435	7.2	

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES	NO
<i>MP</i>	AC-3	WO 98/53057	November 26, 1998	PCT	—	—		
<i>MP</i>	AD-3	WO 99/48909	September 30, 1999	PCT	—	—		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
<i>MP</i>	AE-3	Hayes et al., "Chemical Probes of DNA Structure in Chromatin," <i>Chemistry & Biology</i> 2:127-135 (1995) (corrected)
<i>MP</i>	AF-3	Liu et al., "Regulation of an Endogenous Locus Using a Panel of Designed Zinc Finger Proteins Targeted to Accessible Chromatin Regions Activation of Vascular Endothelial Growth Factor A," <i>Journal of Biological Chemistry</i> 276(14):11323-11337 (2001)
<i>MP</i>	AG-3	Zhang et al., "Synthetic Zinc Finger Transcription Factor Action at an Endogenous Chromosomal Site. Activation of the Human Erythropoietin Gene," <i>Journal of Biological Chemistry</i> 272(43):33850-33860 (2000)

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